

B.E. I.T. sem VIII (RM) - M-2014  
22/05/14  
Sub - ISM & DR.

QP Code : **MV-19159**

(3 Hours)

[ Total Marks : 100

- N. B. : (1) Question No. 1 is **compulsory**.  
(2) Any **four** from remaining **five** questions.  
(3) **All** questions carry **equal** marks.

1. (a) In case of disk drive explain Seek Time, Rotational latency, Utilization factor and Service time. 5  
(b) Explain what is the use of CHS, LBA and virtual logical manager. 5  
(c) Draw and explain ILC. 5  
(d) Explain where RAID 0+1 and RAID 1+0 can be used with example. 5
2. (a) Give the Taxonomy of storage virtualization and explain. 10  
(b) Explain SCSI-3 Architecture and use of each layer for storage Applications. 10
3. (a) Four nodes A, B, C, D are to be communicated. Give FC-AL and FC-SW configuration and also specify the type of ports which will be used for connection. 10  
(b) Explain CAS Architecture with its advantages. 10
4. (a) Give Various NAS implementation. 10  
(b) What is meant by Business continuity, information availability, disaster recovery and recovery point objective. 10
5. (a) Give implementation of IP SAN as iScSi and FCIP. Explain application of each for storage. 10  
(b) Explain local replication technologies. 10
6. Write short notes on :- 20
  - (a) BC planning lifecycle.
  - (b) Explain backup requirement and backup granularity.
  - (c) Assets, threats in storage security.
  - (d) ISE (intelligent storage environment).